FOCETO 6505180

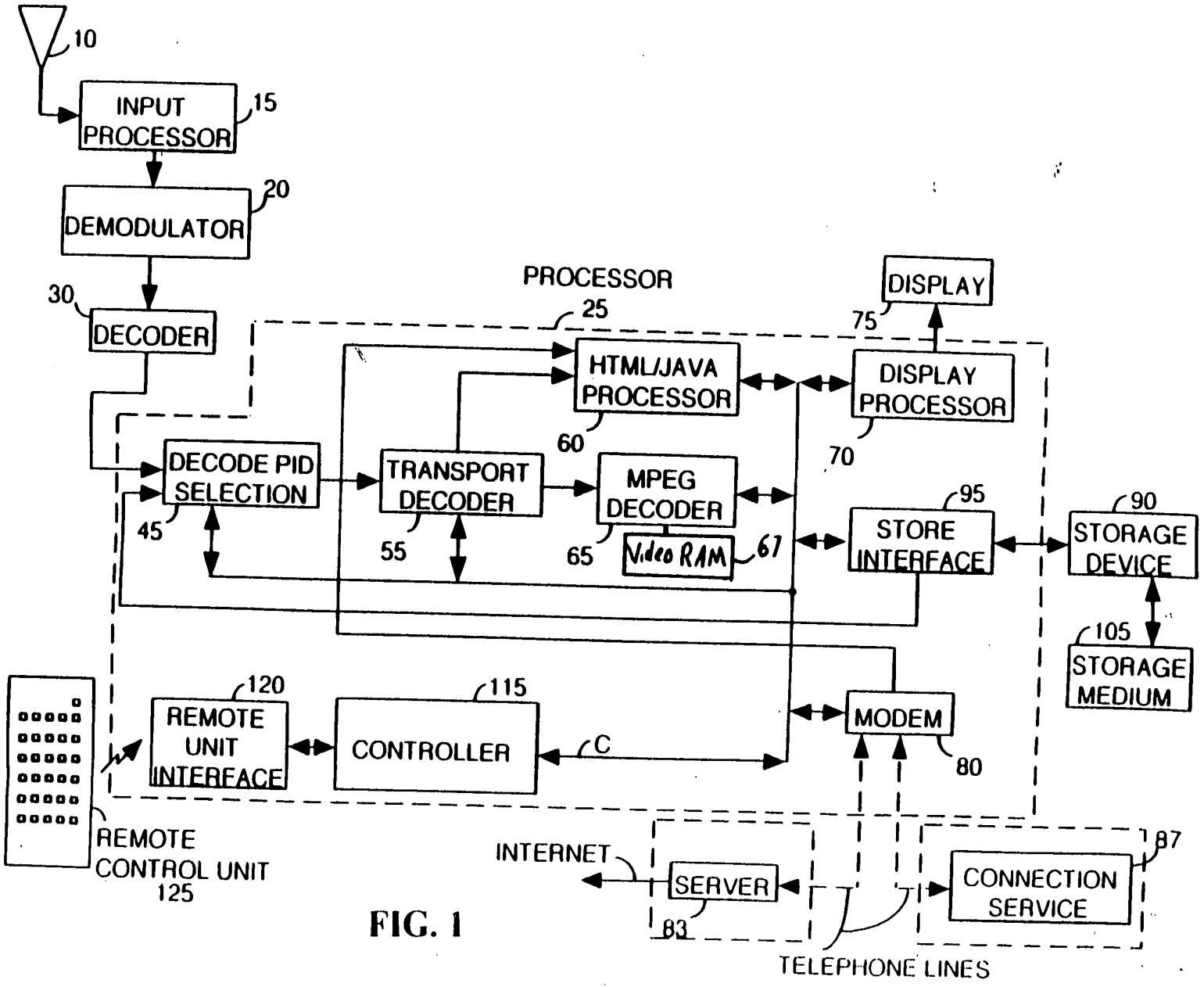

FIG. 1

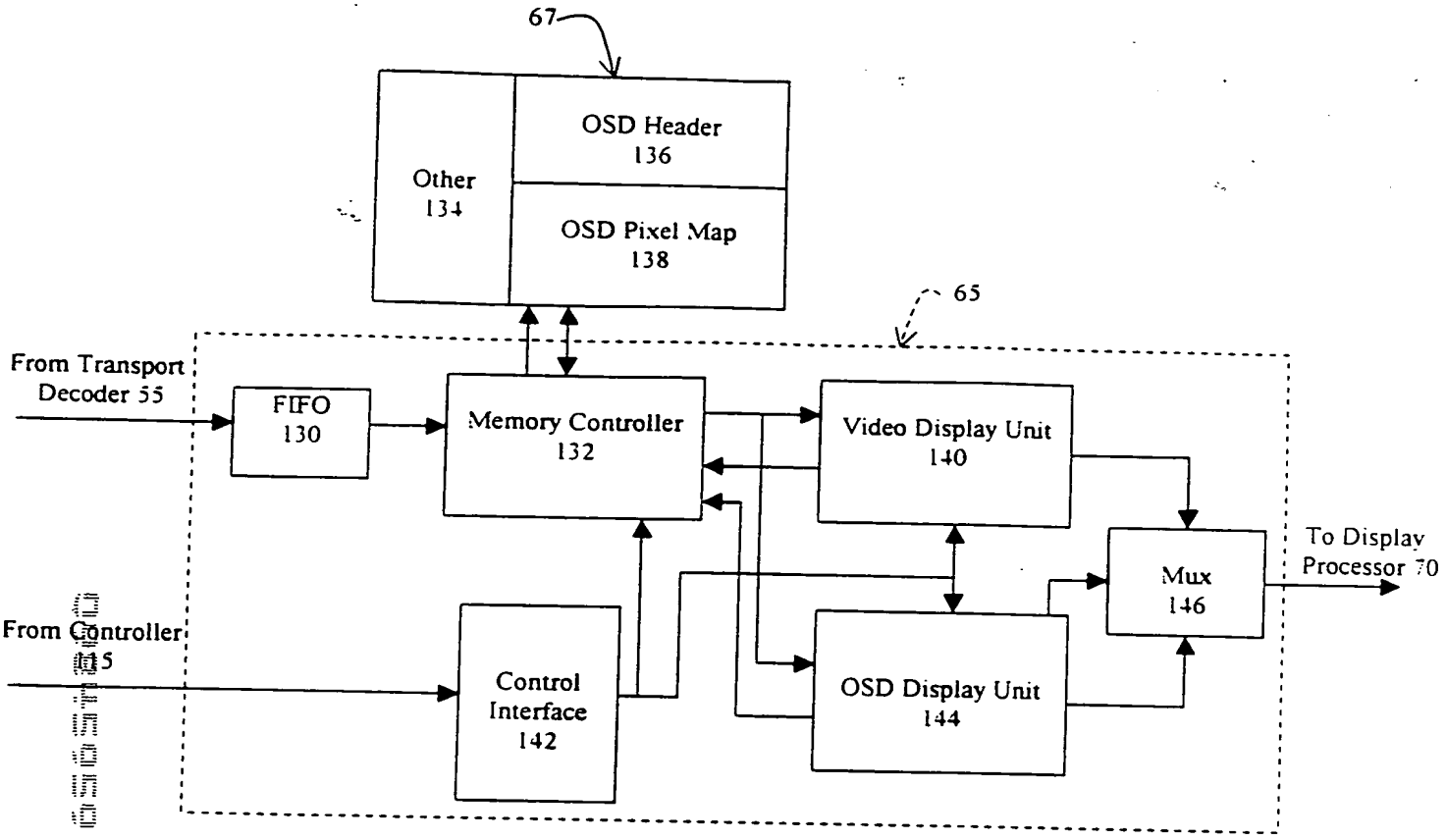
67
Other
134
OSD Header
136
OSD Pixel Map
138
65
From Transport
Decoder 55
FIFO
130
Memory Controller
132
Video Display Unit
140
To Display
Processor 70
Mux
146
From Controller
15
Control
Interface
142
OSD Display Unit
144

FIG. 2

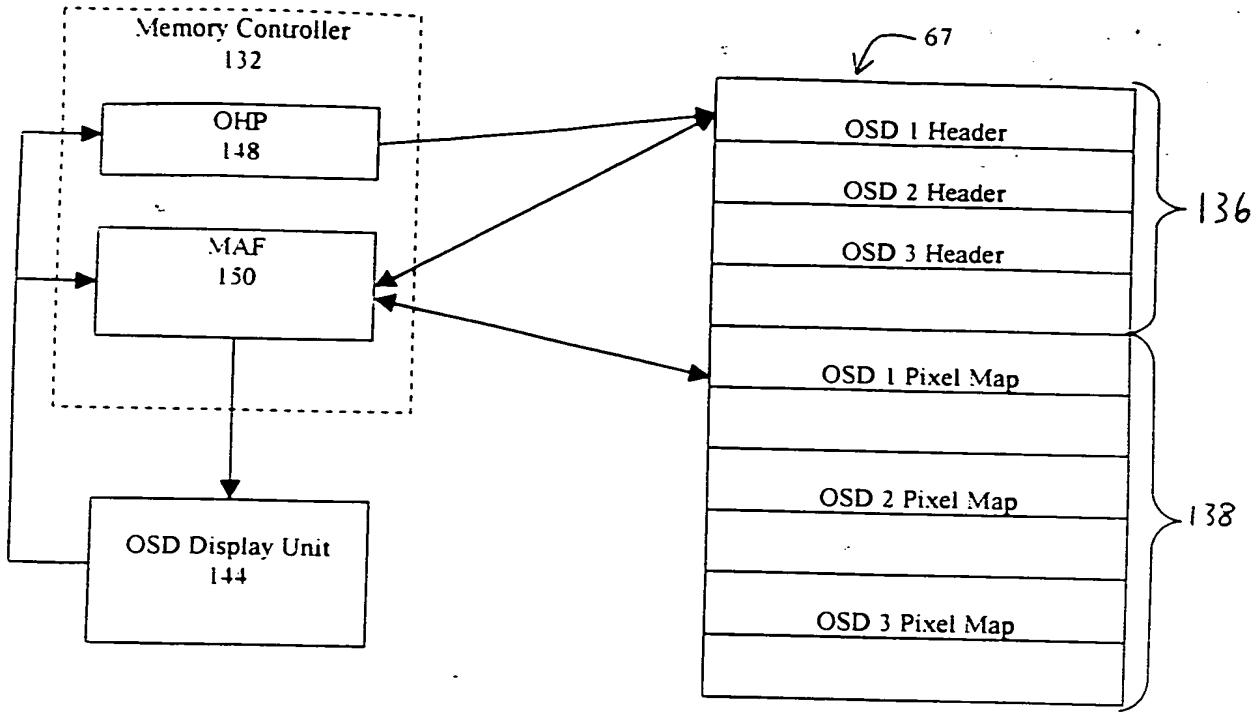
Memory Controller
132
OHP
148
MAF
150
OSD Display Unit
144
67
OSD 1 Header
OSD 2 Header
OSD 3 Header
136
OSD 1 Pixel Map
OSD 2 Pixel Map
OSD 3 Pixel Map
138

FIG. 3

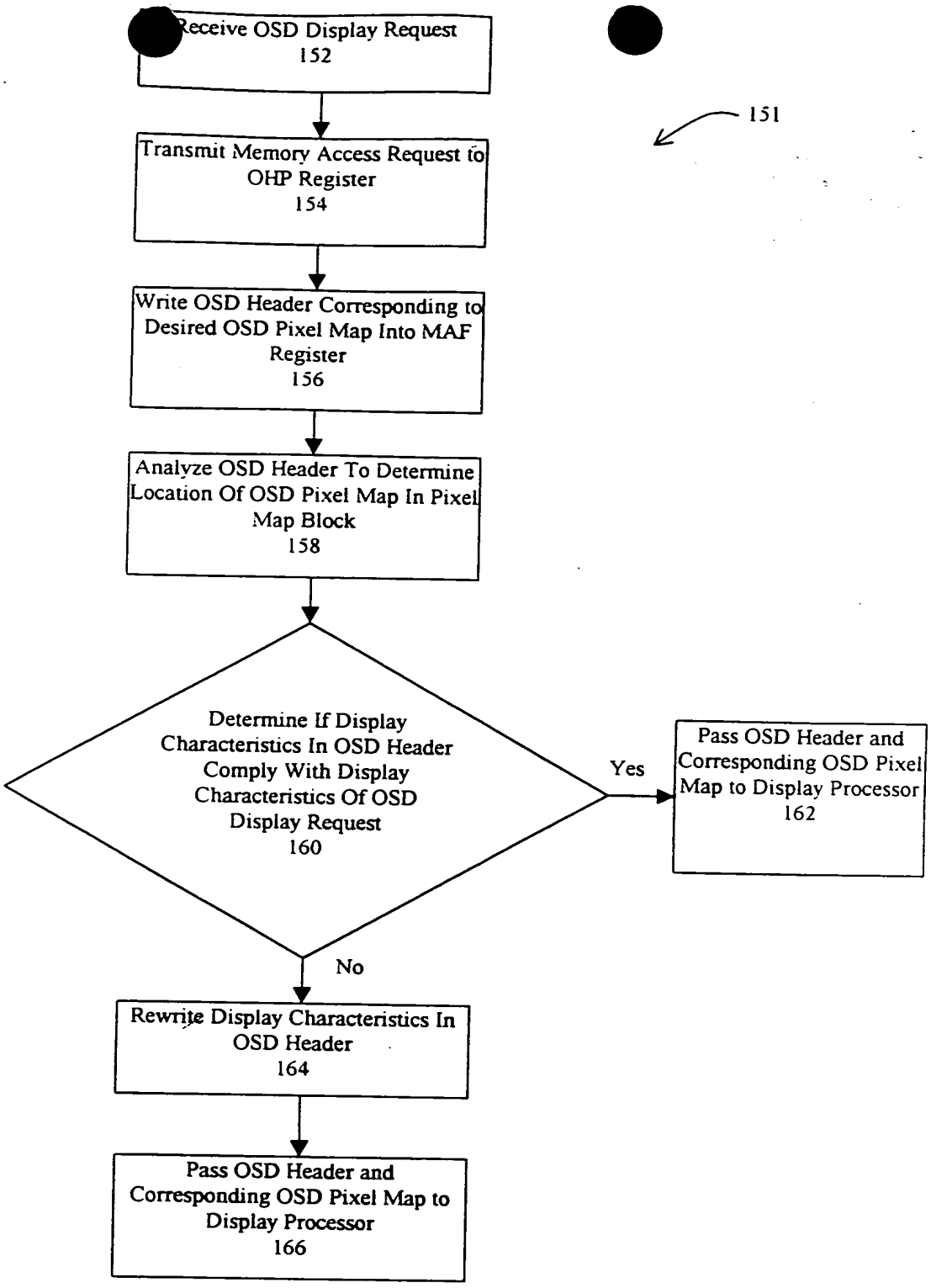
Receive OSD Display Request
152
151
Transmit Memory Access Request to OHP Register
154
Write OSD Header Corresponding to Desired OSD Pixel Map Into MAF Register
156
Analyze OSD Header To Determine Location Of OSD Pixel Map In Pixel Map Block
158
Determine If Display Characteristics In OSD Header Comply With Display Characteristics Of OSD Display Request
160
Yes
Pass OSD Header and Corresponding OSD Pixel Map to Display Processor
162
No
Rewrite Display Characteristics In OSD Header
164
Pass OSD Header and Corresponding OSD Pixel Map to Display Processor
166

FIG. 4

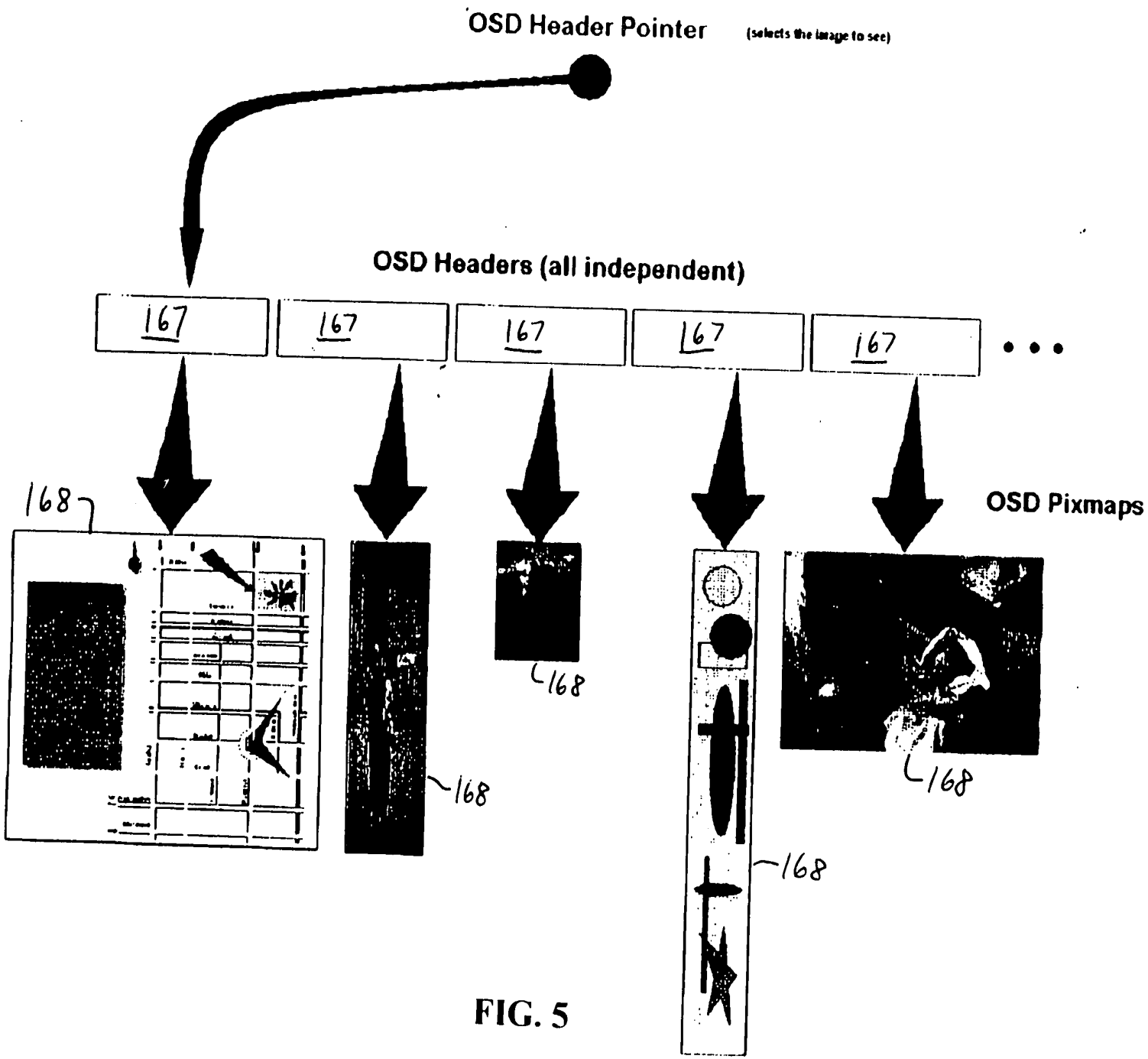

FIG. 5

09815969 .011301

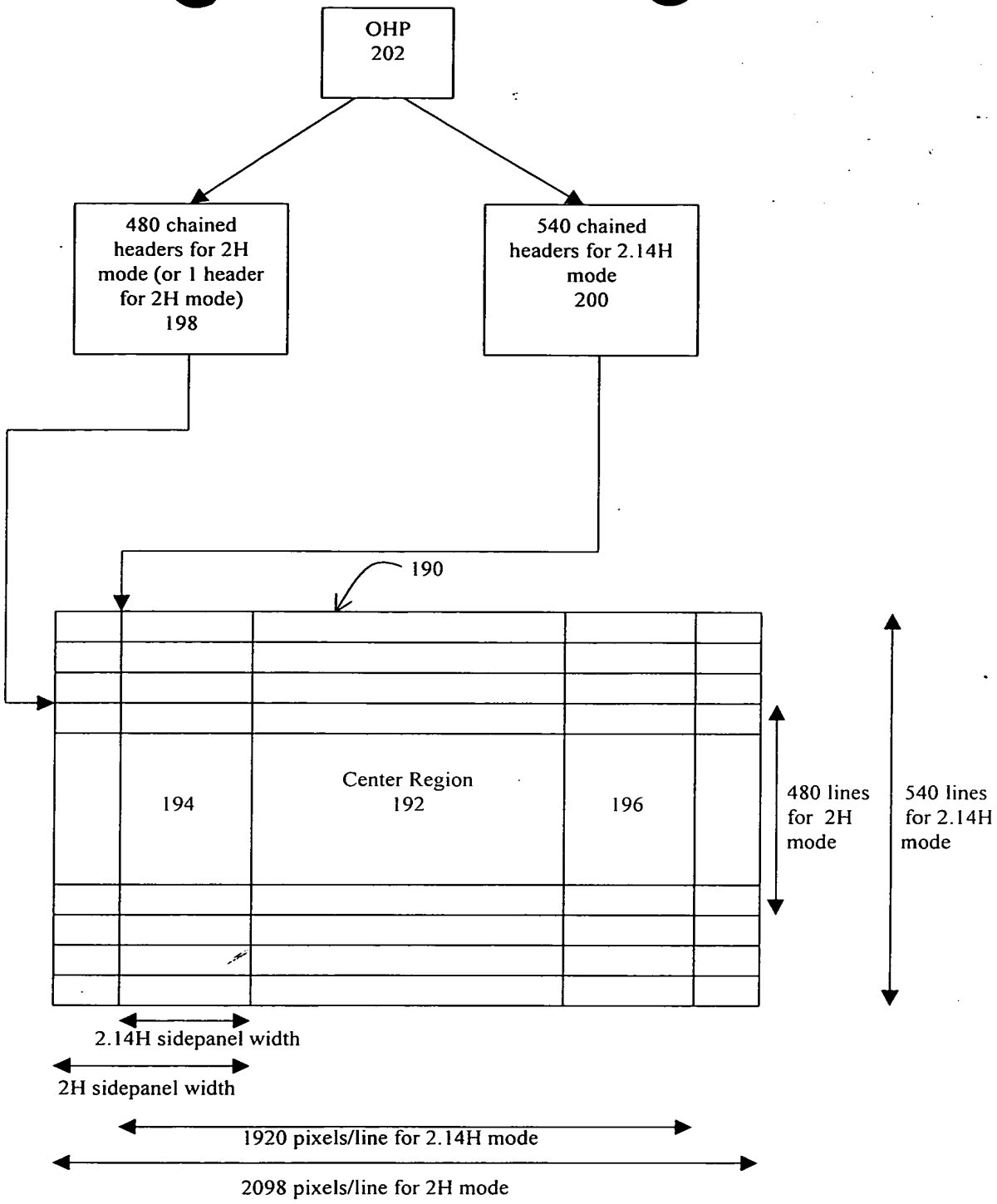
OHP
202
480 chained headers for 2H mode (or 1 header for 2H mode)
198
540 chained headers for 2.14H mode
200
190
194
Center Region
192
196
480 lines for 2H mode
540 lines for 2.14H mode
2.14H sidepanel width
2H sidepanel width
1920 pixels/line for 2.14H mode
2098 pixels/line for 2H mode

FIG. 6

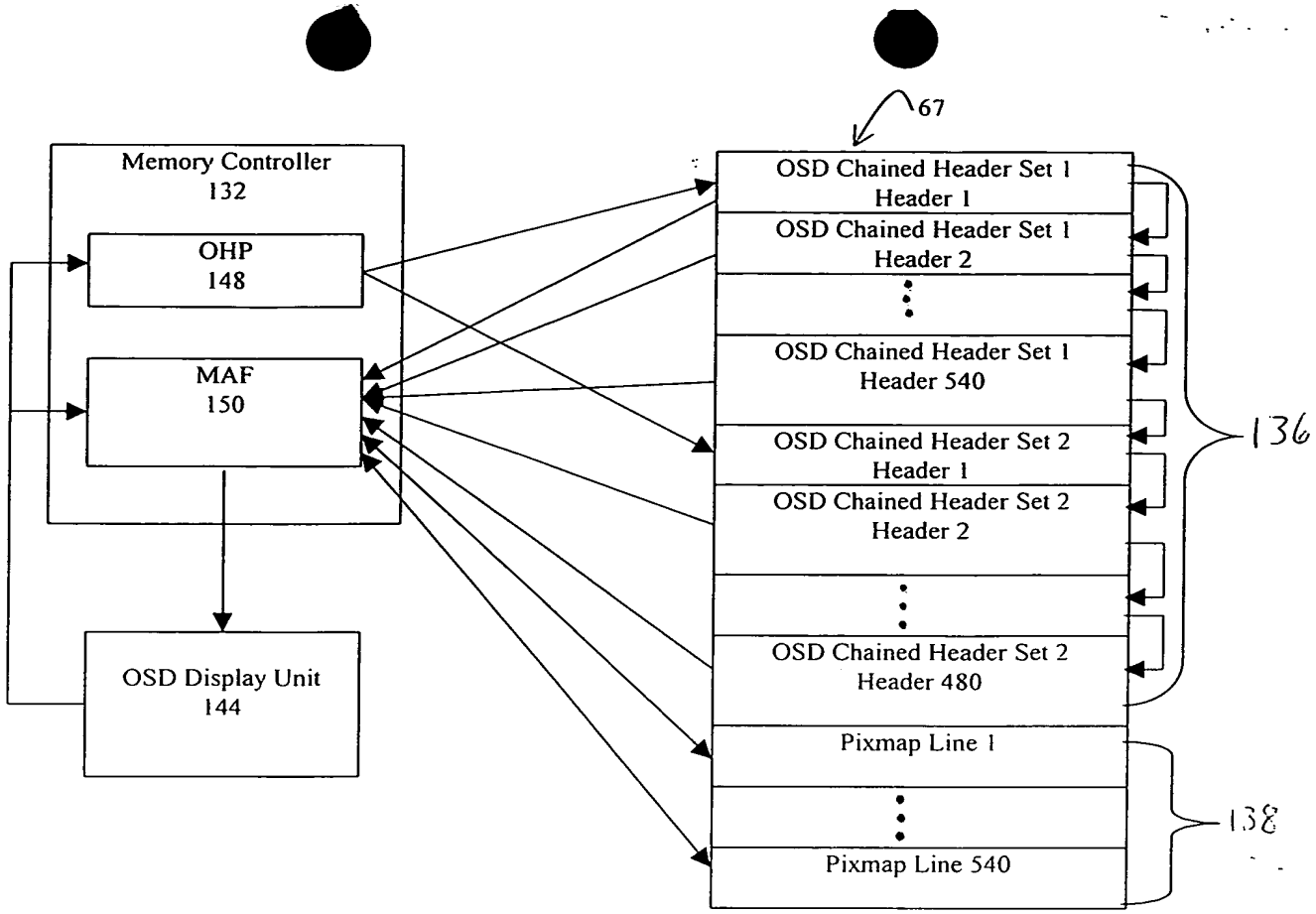
67
Memory Controller
132
OHP
148
MAF
150
OSD Display Unit
144
OSD Chained Header Set 1
Header 1
OSD Chained Header Set 1
Header 2
OSD Chained Header Set 1
Header 540
OSD Chained Header Set 2
Header 1
OSD Chained Header Set 2
Header 2
OSD Chained Header Set 2
Header 480
Pixmap Line 1
Pixmap Line 540
136
138

FIG. 7

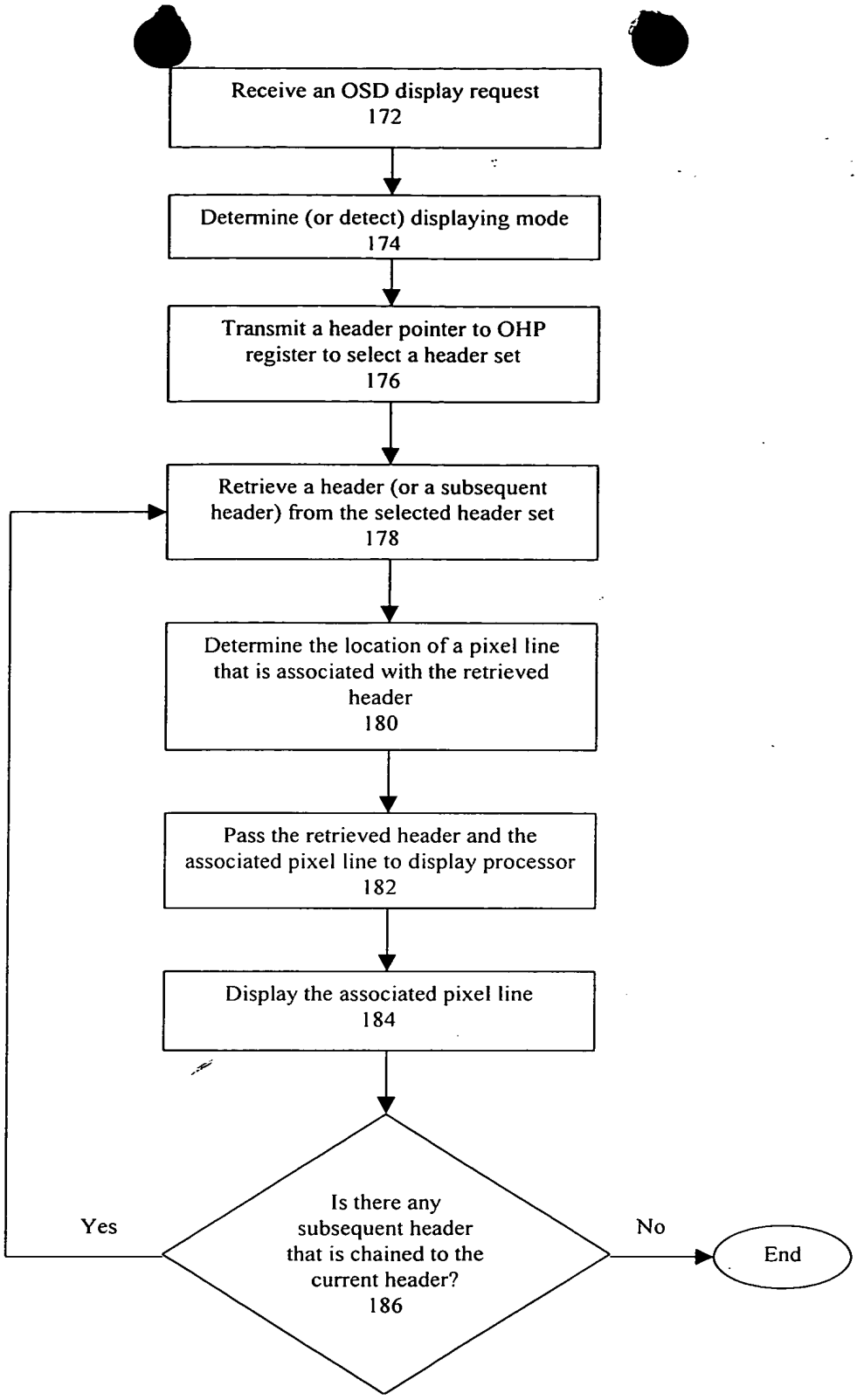
Receive an OSD display request
172
Determine (or detect) displaying mode
174
Transmit a header pointer to OHP register to select a header set
176
Retrieve a header (or a subsequent header) from the selected header set
178
Determine the location of a pixel line that is associated with the retrieved header
180
Pass the retrieved header and the associated pixel line to display processor
182
Display the associated pixel line
184
Is there any subsequent header that is chained to the current header?
186
Yes
No
End

FIG. 8